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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Pantoliano *et al.*

Appl. No. 10/057,940

Filed: January 29, 2002

For: **High Throughput Method For
Functionally Classifying
Proteins Identified Using a
Genomics Approach**

Confirmation No. 4865

Art Unit: 1627

Examiner: *To be assigned*

Atty. Docket: 1503.0310002/JAG/JSO

First Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith in connection with the above-captioned application. A copy of each document is also provided.

The Examiner's attention is also directed to co-pending U.S. Patent Application Nos. 09/438,357, filed November 12, 1999 and 09/801,676, filed March 9, 2001. Pursuant to 37 C.F.R. § 1.98(a)(2), legible copies of these applications and the current claims are provided herein. The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Documents AT14, AR20, AT22, AT23, AR24, AS24, AS29, AT29, AR35, AS39, AT39, AR40, AT40 and AS41 are in a foreign language. An English language translation of document AT23 is provided as document AR46. A partial English language translation of document AR20 is provided as document AT45. A partial English language translation of document AR24 is provided as document AS46. A partial English language translation of document AS24 is provided as document AT46. An English language summary is found on the last page of documents AT14, AS29, AT29, AR35, AS39, AT39, AR40, and AS41.

It is believed that document AT22 discusses the structure and biological activities of complement receptors CR1, CR2, and CR3, and mentions ligand for binding to these receptors.

It is believed that document AT40 purports that binding by cyclophilin and by FK-506-binding protein results in a conformational change in each protein.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search

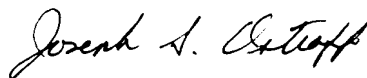
has been made, or that information more material to the examination of the present patent application does not exist.

This First Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted.

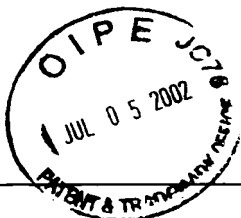
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January 29, 2002GROUP
1627**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG2	4,580,895	04/08/1986	Patel, S.S.	356	39	10/28/1983
	AH2	4,626,684	12/02/1986	Landa, I.J.	250	328	07/13/1983
	AI2	4,628,026	12/09/1986	Gardell et al.	435	7	11/15/1983
	AJ2	4,774,055	09/27/1988	Wakatake et al.	422	64	06/23/1986
	AK2	4,778,763	10/18/1988	Makiguchi et al.	436	47	04/21/1986

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN2	WO 93/14781	08/05/1993	WIPO			Yes No
	AO2	WO 94/05394	03/17/1994	WIPO			Yes No
	AP2	EP 0 640 828 A1	03/01/1995	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	
	AS	<u>14</u>	Becktel, W.J. and Schellman, J.A., "Protein Stability Curves," <i>Biopolymers</i> 26:1859-1877, John Wiley & Sons, Inc. (1987).
	AT	<u>14</u>	Belevitch, G.V. et al., "Calcium antagonists, Riodipine, Niphedipine and Verapamil, Binding to Model and Biological Membranes: Fluorescence Analysis," <i>Biologicheskije Membrany</i> 5:768-776, Rossiiskaya Akademiya Nauk (1988).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3	5,290,513	03/01/1994	Berthold et al.	422	52	07/20/1992
	AB3	5,314,825	05/24/1994	Weyrauch et al.	436	43	07/16/1992
	AC3	5,324,635	06/28/1994	Kawase et al.	435	7.94	08/24/1989
	AD3	5,325,295	06/28/1994	Fratantoni et al.	364	413.08	04/22/1991
	AE3	5,340,747	08/23/1994	Eden, G.	436	172	06/04/1993
	AF3	5,355,215	10/11/1994	Schroeder et al.	356	317	09/30/1992
	AG3	5,383,023	01/17/1995	Walleczek, J.	356	417	03/01/1993
	AH3	5,436,718	07/25/1995	Fernandes et al.	356	73	07/30/1993
	AI3	5,496,519	03/05/1996	Schacher, G.	422	64	07/21/1994
	AJ3	5,557,398	09/17/1996	Wechsler et al.	356	318	04/15/1994
	AK3	5,589,351	12/31/1996	Harootunian, A.T.	435	29	12/06/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL3	WO 98/15969 A2	04/16/1998	WIPO			Yes No
	AM3	WO 98/39484	09/11/1998	WIPO			Yes No
	AN3	WO 98/15969 A3	07/27/2000	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	15	Bone, R. et al., "Inhibition of Thymidine Kinase by P ⁱ -(Adenosine-5')-P ⁱ -(thymidine-5')-pentaphosphate," J. Biol. Chem. 261:5731-5735, The American Society of Biological Chemists, Inc. (1986).
	AS	15	Bowie, J.U. and Sauer, R.T., "Equilibrium Dissociation and Unfolding of the Arc Repressor Dimer," Biochemistry 28:7139-7143, American Chemical Society (1989).
	AT	15	Brandts, J.F. et al., "An instrument for rapid determination of binding constants for biomolecules," Amer. Lab. 22:30-41, International Scientific Communications, Inc. (1990).

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TECH CENTER 1600/2900
Page 3 of 33

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	AA4	5,599,504	02/04/1997	Hosoi et al.	422	82.08	07/15/1994
	AB4	5,631,734	05/20/1997	Stern et al.	356	317	02/10/1994
	AC4	6,036,920	03/14/2000	Pantoliano et al.	422	67	05/09/1997
	AD4	6,214,293 B1	04/10/2001	Pantoliano et al.	422	67	12/14/1999
	AE4	6,232,085 B1	05/15/2001	Pantoliano et al.	435	7.1	12/10/1999
	AF4	6,268,158 B1	07/31/2001	Pantoliano et al.	435	7.1	12/10/1999
	AG4	6,268,218 B1	07/31/2001	Pantoliano et al.	436	86	12/14/1999
	AH4	6,291,192 B1	09/18/2001	Pantoliano et al.	435	7.1	01/05/2000
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>16</u>	Buchner, J. et al., "Alternatively Folded States of an Immunoglobulin," <i>Biochemistry</i> 30:6922-6929, American Chemical Society (1991).
	AS	<u>16</u>	Burke, C.J. et al., "Effect of Polyanions on the Unfolding of Acidic Fibroblast Growth Factor," <i>Biochemistry</i> 32:6419-6426, American Chemical Society (1993).
	AT	<u>16</u>	Butour, J.-L. et al., "Effect of the amine non-leaving group on the structure and stability of DNA complexes with <i>cis</i> -[Pt(R-NH ₂) ₂ (NO ₂) ₂]," <i>Eur. J. Biochem.</i> 202:975-980, Springer International and the Federation of European Biochemical Societies (1991).

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TECH CENTER 1600/2900

Page 4 of 35

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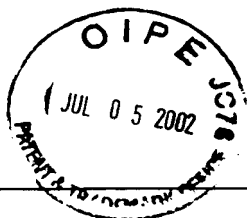
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	AR	<u>17</u>	Chen, L. et al., "Microtiter Plate Binding Assay for Cholinergic Compounds Utilizing the Nicotinic Acetylcholine Receptor," <i>Anal. Chem.</i> 64:3018-3023, American Chemical Society (1992).
	AS	<u>17</u>	Copeland, R.A. et al., "The Structure of Human Acidic Fibroblast Growth Factor and Its Interaction with Heparin," <i>Arch. Biochem. Biophys.</i> 289:53-61, Academic Press, Inc. (1991).
	AT	<u>17</u>	Cox, M.J. and Weber, P.C., "An Investigation of Protein Crystallization Parameters Using Successive Automated Grid Searches (SAGS)," <i>J. Crystal Growth</i> 90:318-324, Elsevier Science Publishers B.V. (1988).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>18</u>	Darzynkiewicz, Z. et al., "DNA Denaturation In Situ: Effect of Divalent Cations and Alcohols," <i>J. Cell Biol.</i> 68:1-10, Rockefeller University Press (1976).
	AS	<u>18</u>	Draper, D.E. and Gluick, T.C., "Melting Studies of RNA Unfolding and RNA-Ligand Interactions," <i>Meth. Enzymol.</i> 259:281-305, Academic Press, Inc. (1995).
	AT	<u>18</u>	Elwell, M. and Schellman, J., "Phage T4 Lysozyme Physical Properties and Reversible Unfolding," <i>Biochim. Biophys. Acta</i> 386:309-323, Elsevier Scientific Publishing Company (1975).

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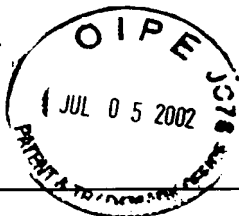
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	AR	19	Elwell, M.L. and Schellman, J.A., "Stability of Phage T4 Lysozymes. I. Native Properties and Thermal Stability of Wild Type and Two Mutant Lysozymes," <i>Biochim. Biophys. Acta</i> 494:367-383, Elsevier/North-Holland Biomedical Press (1977).
	AS	19	Eriksson, A.E. et al., "Similar Hydrophobic Replacements of Leu99 and Phe153 within the Core of T4 Lysozyme Have Different Structural and Thermodynamic Consequences," <i>J. Mol. Biol.</i> 229:747-769, Academic Press, Inc. (1993).
	AT	19	Freire, E., "Thermal Denaturation Methods in the Study of Protein Folding," <i>Meth. Enzymol.</i> 259:144-168, Academic Press, Inc. (1995).

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TECH CENTER 1600/2900

Page 7 of 35

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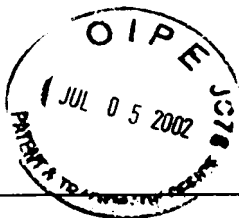
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	20	Fukada, H., "Calorimetry of the Ligand Binding to Proteins," <i>Tanpakushitsu Kakusan Koso</i> 33:328-336, Kyoritsu Shuppan Co. Ltd. (1988).
	AS	20	Gordon, E.M. et al., "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> 37:1385-1401, American Chemical Society (1994).
	AT	20	Green, S.M. et al., "Roles of Metal Ions in the Maintenance of the Tertiary and Quaternary Structure of Arginase from <i>Saccharomyces cerevisiae</i> ," <i>J. Biol. Chem.</i> 266:21474-21481, American Society for Biochemistry and Molecular Biology (1991).

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	AR	<u>21</u>	Hanna, M. and Szostak, J.W., "Suppression of mutations in the core of the Tetrahymena ribozyme by spermidine, ethanol and by substrate stabilization," Nucl. Acids Res. 22:5326-5331, Oxford University Press (1994).
	AS	<u>21</u>	Hei, D.J. and Clark, D.S., "Estimation of Melting Curves From Enzymatic Activity-Temperature Profiles," Biotechnol. Bioeng. 42:1245-1251, John Wiley & Sons, Inc. (1993).
	AT	<u>21</u>	Higuchi, R. et al., "Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions," Bio/Technology 11:1026-1030, Nature Publishing Company (1993).

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	AR	22	Hofmann, A. et al., "A Sparse Matrix Screen to Establish Initial Conditions for Protein Renaturation," <i>Anal. Biochem.</i> 230:8-15, Academic Press, Inc. (1995).
	AS	22	Hutton, J.R., "Renaturation kinetics and thermal stability of DNA in aqueous solutions of formamide and urea," <i>Nucl. Acids Res.</i> 4:3537-3555, Information Retrieval Limited (1977).
	AT	22	Iida, K., "Structure and biological activity of complement receptors CR1, CR2 and CR3," <i>Seikagaku</i> 58: 1471-1474, Nihon Seikagakkai (1986).

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Page 10 of 35



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	AO						Yes No
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	AR	23	Jensen, D.E. and von Hippel, P.H., "DNA 'Melting' Proteins: I. Effects of Bovine Pancreatic Ribonuclease Binding on the Conformation and Stability of DNA," <i>J. Biol. Chem.</i> 251:7198-7214, American Society of Biological Chemists, Inc. (1976).
	AS	23	Johnson, C.M. et al., "Differential Scanning Calorimetry of Thermal Unfolding of the Methionine Repressor Protein (MetJ) from <i>Escherichia coli</i> ," <i>Biochemistry</i> 31:9717-9724, American Chemical Society (1992).
	AT	23	Kogtev, L.S. et al., "Use of Fluorescence-Labeled Lipid Probes for Analyzing Substance P and its Derivatives Binding to the Rat Brain Tachykinin Receptors," <i>Biologicheskie Membrany</i> 6:34-41, Rossiiskaya Akademiya Nauk (1989).

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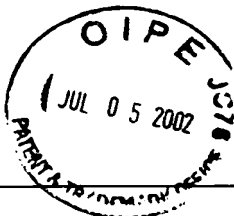
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	AS	<u>24</u>	Kuwajima, K., "Kinetic pathway of globular-protein folding," <i>Seikagaku</i> 62:117-121, Nihon Seikagakkai (1990).
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FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
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	AR	25	Lee, M. et al., "In Vitro Cytotoxicity of GC Sequence Directed Alkylating Agents Related to Distamycin," <i>J. Med. Chem.</i> 36:863-870, American Chemical Society (1993).
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JUL 08 2002

TECH CENTER 1600/2900

Page 14 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.FILING DATE
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JUL 08 2002

TECH CENTER 1600/2900

Page 15 of 35

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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Page 16 of 35
TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
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January 29, 2002GROUP
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	AR	29	Middaugh, C.R. et al., "Selected Problems in the Formulation of Protein Pharmaceuticals," <i>Book of Abstracts of the 205th ACS National Meeting</i> , Abstract No. 126, American Chemical Society (1993).
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FORM PTO-1449

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Pantoliano et al.FILING DATE
January 29, 2002GROUP
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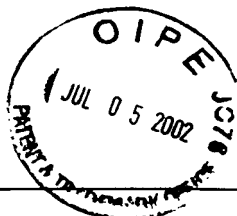
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RECEIVED

JUL 08 2002 Page 18 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.

TECH CENTER 1600/2900

FILING DATE
January 29, 2002GROUP
1627

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JUL 08 2002

Page 19 of 35
TECH CENTER 1600/2900

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

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JUL 08 2002

Page 20 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002TECH CENTER 1600/2900
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Pantoliano et al.FILING DATE
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JUL 08 2002

Page 21 of 35

TECH CENTER 16002040

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION 10/057,940
	APPLICANT Pantoliano et al.	
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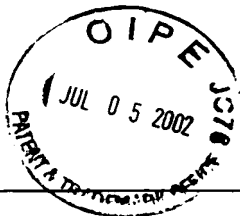
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JUL 08 2002

Page 22 of 35
TECH CENTER 1600/2900

FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310002	APPLICATION 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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JUL 08 2002

Page 23 of 35
TECH CENTER 1600/2900

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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RECEIVED

JUL 08 2002 Page 24 of 35

FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 578940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

TECH CENTER 1600/2900

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JUL 08 2002

TECH CENTER
Page 25 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0310002

APPLICATION NO.
10/057,940

APPLICANT
Pantoliano et al.

FILING DATE
January 29, 2002

GROUP
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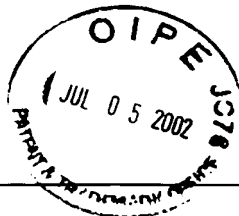
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RECEIVED

JUL 08 2002

Page 26 of 35

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	TECH CENTER 1600/2900
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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RECEIVED

JUL 08 2002

TECH CENTER 1600/2900

Page 27 of 35



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0310002

APPLICATION NO.
10/057,940

APPLICANT
Pantoliano *et al.*

FILING DATE
January 29, 2002

GROUP
1627

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RECEIVED

JUL 08 2002

TECH CENTER 1600/2900

Page 28 of 35



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0310002

APPLICATION NO.
10/057,940

APPLICANT
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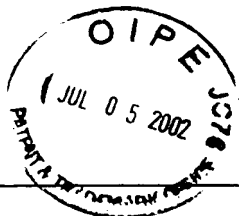
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RECEIVED

JUL 08 2002 Page 29 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.

TECH CENTER 1600/2900

FILING DATE
January 29, 2002GROUP
1627

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TECH CENTER 1600/2900

FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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TECH CENTER 1600/2900



FORM PTO-1449

**FIRST SUPPLEMENTAL
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ATTY. DOCKET NO.
1503.0310002

APPLICATION NO.
10/057,940

APPLICANT
Pantoliano *et al.*

FILING DATE
January 29, 2002

GROUP
1627

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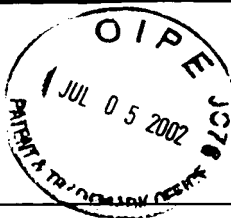
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JUL 08 2002

TECH CENTER 1600/2900

Page 32 of 35

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

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JUL 08 2002

TECH CENTER 1600/2900

Page 33 of 35

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1503.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
1627

U.S. PATENT DOCUMENTS

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JUL 08 2002

TECH CENTER 1600/2900

Page 34 of 35



FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
1503.0310002

 APPLICATION NO.
10/057,940

 APPLICANT
Pantoliano et al.

 FILING DATE
January 29, 2002

 GROUP
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RECEIVED

JUL 08 2002

Page 1 of 35

FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1503.0310002	TECH CENTER 1600/2000 167057,940
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